

### **Conference Cochairs:**

**Andrea Cercek**, Memorial Sloan Kettering Cancer Center, New York, NY

**Elizabeth M. Jaffee**, Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD

**Timothy R. Rebbeck**, Dana-Farber Cancer Institute, Boston, MA

## **WEDNESDAY, DECEMBER 10**

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### **Registration**

**4-8 p.m. | Grand Salon Opera Foyer**

### **Welcome and Opening Keynote Session**

**6-7:30 p.m. | Grand Salon Opera AB**

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| 6:00-6:05 | <p>Welcome</p> <p>Andrea Cercek, Memorial Sloan Kettering Cancer Center, New York, NY</p>   |
| 6:05-6:10 | <p>Introduction of Keynote Speaker</p> <p>Andrea Cercek</p>   |
| 6:10-6:40 | <p><b>Unequal and Early: Mapping Global Disparities in Cancers Before Age 50</b></p> <p>Tomi Akinyemiju</p> <p>Duke University School of Medicine, Durham, NC</p>                         |
| 6:40-6:45 | <p>Introduction of Keynote Speaker</p> <p>Andrea Cercek</p>   |
| 6:45-7:15 | <p><b>The Plastic Paradox: Implications for Cancer and Chronic Disease, and What We Can Do About It</b></p> <p>Leonardo Trasande</p> <p>NYU Grossman School of Medicine, New York, NY</p> |
| 7:15-7:30 | <p>Discussion / Q&amp;A</p>   |

### **Poster Session A & Reception**

**7:30-9 p.m. | Grand Salon Opera C**

## **THURSDAY, DECEMBER 11**

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### **Continental Breakfast**

**7-8 a.m. | Grand Salon Foyer**

**Meet-the-Expert / Mentoring Roundtables Session**  
**7-8 a.m. | Grand Salon Foyer**

<b>Conducting Translational Research: How to Get Started</b> Andrew Chan	<b>How to Get a Paper Published</b> Zsofia Stadler
<b>Choosing a Career Path: Academia vs Industry   Entrepreneurship</b> Marat Fudim	<b>How to Write a Grant</b> Ulrike (Riki) Peters
<b>Balancing Clinical and Research responsibilities</b> Zsofia Stadler, Karuna Ganesh, Andrew Chan	<b>Starting your Lab</b> Karuna Ganesh

**Plenary Session 1: Epidemiology of Early-Onset Cancer**

**8:00-9:45 a.m. | Grand Salon Opera AB**

**Session Chair:** Timothy R. Rebbeck, Dana-Farber Cancer Institute, Boston, MA

8:00-8:05	Introduction
8:05-8:25	<b>Trends in cancer mortality before the age of 50 with a focus on colorectal cancer.</b> Carlo Lavecchia Università degli Studi di Milano, Milan, Italy
8:25-8:45	<b>Peeling the Onion: Epidemiologic Clues to the Etiology of Rising Early-onset Colorectal Cancer</b> Rebecca Siegel American Cancer Society, Atlanta, GA
8:45-9:05	<b>Environmental exposures and the rise of early onset cancers</b> Mary Beth Terry Columbia University Irving Medical Center, New York, NY
9:05-9:15	<b>Risk prediction modeling for colorectal adenomas in persons under age 50: a risk-stratified approach to early onset colorectal cancer prevention*</b> Shria Kumar University of Miami Miller School of Medicine, Miami, FL
9:15-9:25	<b>Co-occurring social determinants of endometrial cancer disparities in All of Us</b> Oyomoare Osazuwa-Peters Duke University School of Medicine, Durham, NC
9:25-10:00	Discussion / Q&A

**Break**

10:00-10:15 a.m.

## Plenary Session 2: Leading Hypotheses - Learning from Commonalities Across Diseases

10:15 a.m.-12:00 p.m. | Grand Salon Opera AB

**Session Chair:** Andrea Cercek, Memorial Sloan Kettering Cancer Center, New York, NY

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| 10:15-10:20 | Introduction  |
| 10:20-10:40 | <b>Searching for a link in etiology across early onset cancers</b><br>Andrea Cercek   |
| 10:40-11:00 | <b>Drawing Parallels to Heart Failure Diagnosis and Research</b><br>Marat Fudim<br>Duke University, Durham, NC  |
| 11:00-11:20 | <b>Early-life sugar restrictions and long-term health [Prerecorded]</b><br>Tadeja Gracner<br>University of Southern California, Los Angeles, CA   |
| 11:20-11:30 | <b>Methylation scores link the exposome to eoCRC</b><br>Silvana Maas<br>VHIO Vall D'Hebron Institute of Oncology, Barcelona, Spain  |
| 11:30-11:40 | <b>Mutational signature profiling identifies a distinct subgroup of early-onset colorectal cancer associated with younger age at diagnosis, recent birth year and specific genomic features*</b><br>Daniel Buchanan<br>University of Melbourne, Parkville, VIC, Australia |
| 11:40-12:15 | Discussion / Q&A  |

## Lunch on Own/Free Time

12:15-2:00 p.m.

## Plenary Session 3: Global Disparities in Early-Onset Cancer

2:00-3:45 p.m. | Grand Salon Opera AB

**Session Chair:** Tomi Akinyemiju, Duke University School of Medicine, Durham, NC

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| 2:00-2:05 | Introduction  |
| 2:05-2:25 | <b>From place to person: an overview of global disparities in early-onset cancer</b><br>Caitlin Murphy<br>University of Texas, Houston School of Public Health, Houston, TX |
| 2:25-2:45 | <b>Racial/Ethnic Disparities Across the Early Onset Colorectal Cancer Continuum (in the US)</b><br>Folasade P. May  |

University of California Los Angeles, Los Angeles, CA

- 2:45-3:05      **Sociodemographic and clinical determinants associated with early-onset breast cancer**  
 Tara Friebel-Klingner  
 Rutgers Cancer Institute of New Jersey, New Brunswick, NJ
- 3:05-3:15      **Uncovering the Etiology of Early-Onset Gastric Cancer in Latinos Through Germline and Tumor Genomic Profiling\***  
 Luis Carvajal-Carmona  
 UC Davis, Davis, CA
- 3:15-4:00      Discussion / Q&A

#### Poster Session B & Reception

4:30-6:00 p.m. | Grand Salon Opera C

#### Evening off / Dinner on own

6:00 p.m.

### FRIDAY, DECEMBER 12

#### Continental Breakfast

7-8 a.m. | Grand Salon Foyer

#### Meet-the-Expert / Mentoring Roundtables Session

7-8 a.m. | Grand Salon Foyer

<b>Conducting Translational Research: How to Get Started</b> Yin Cao, Elizabeth Jaffee	<b>Getting Tenure</b> Elizabeth Jaffee
<b>EU/UK Collaborations</b> Carlo La Vecchia	<b>Starting your Lab</b> Marcus Goncalves
<b>How to Write a Grant</b> Ruth Etzioni, Elaine Fuchs, Ashani Weeraratna	<b>How to Get a Paper Published</b> Rebecca Siegel

#### Plenary Session 4: Mechanisms of Early Onset Carcinogenesis - Obesity and Metabolic Syndrome

8:00-9:45 a.m. | Grand Salon Opera AB

Session Chair: Yin Cao, Washington University of St. Louis, St. Louis, MO

- 8:00-8:05      Introduction
- 8:05-8:25      **Born Out of Balance: Metabolism, Mechanism, and the Making of a New Cancer Generation**

Yin Cao

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|------------|--|
| 8:25-8:45  | <b>Modeling the Impact of Western Diet Components in Early-Onset Colorectal Cancer</b><br>Marcus DaSilva Goncalves<br>NYU Langone Health, New York, NY   |
| 8:45-9:05  | <b>Integrative cancer population sciences to decipher the etiology of early-onset cancers</b><br>Tomotaka Ugai<br>Harvard Medical School, Boston, MA   |
| 9:05-9:15  | <b>Incidence of early onset colorectal, kidney, uterine and pancreatic cancer by county-level obesity prevalence in the U.S., 2010-2022*</b><br>Meredith Shiels<br>National Cancer Institute, Rockville, MD  |
| 9:15-9:25  | <b>Tumor-adjacent visceral adipose tissue displays an altered transcriptomic landscape in early-onset colorectal cancer patients: Results from the ColoCare Study*</b><br>Victoria Bandera<br>University of Utah Huntsman Cancer Institute, Salt Lake City, UT |
| 9:25-10:00 | Discussion / Q&A   |

## Break

10:00-10:15 a.m.

## Plenary Session 5: Mechanisms of Early Onset Carcinogenesis - Exogenous Factors

10:15 a.m.-12:30 p.m. | Grand Salon Opera AB

Session Chair: Riki (Ulrike) Peters, Fred Hutchinson Cancer Center

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| 10:15-10:20 | Introduction   |
| 10:20-10:40 | <b>Unveiling Trends: Genetic, Environmental, and Molecular Insights into Early-Onset Colorectal Cancer</b><br>Riki (Ulrike) Peters |
| 10:40-11:00 | <b>From the exposome to molecular profiling of early-onset colorectal cancers</b><br>Alberto Bardelli<br>IFOM, Italy               |
| 11:00-11:20 | <b>Early-life risk factors and colorectal cancer: implications for explaining the rise in early-onset cancers</b>                  |

Mingyang Song  
 Harvard School of Public Health, Brookline, MA

11:20-11:40 **Contributions of the exposome to the rise in early onset cancers**  
**Samir M. Hanash**  
 MD Anderson Cancer Center, Houston, TX

11:40-11:50 **Early-life penicillin blooms colibactin-positive Escherichia coli and drives DNA damage and tumorigenesis\***  
 Max Van Belkum  
 Vanderbilt University School of Medicine, Nashville, TN

11:50-12:00 **Bugs in Space: Spatial Analysis of the Immune-Microbial Axis in Rectal Cancer Reveals a Unique Interface in Young Onset Rectal Cancers\***  
 Ryan B. Morgan  
 UT MD Anderson Cancer Center, Houston, TX

12:00-12:45 Discussion / Q&A

#### **Lunch on Own/Free Time**

12:45-2:30 p.m.

#### **Presentation of Awards to the Conference Cochairs**

**2:30-2:35 p.m. | Grand Salon Opera AB**

**Presented by:** Elaine Fuchs, Rockefeller University, New York, NY

#### **Plenary Session 6: Mechanisms of Early Onset Carcinogenesis - Endogenous Mechanisms**

**2:35-4:45 p.m. | Grand Salon Opera AB**

**Session Chair:** Joachim Weischenfeldt, Rigshospitalet Copenhagen, Copenhagen, Denmark

2:35-2:40 Introduction

2:40-3:00 **Mutational processes driving early-onset prostate cancer**  
 Joachim Weischenfeldt

3:00-3:20 **A Complex TiME: How the aging tumor immune microenvironment governs tumor progression.**  
 Ashani Weeraratna  
 Johns Hopkins University, Baltimore, MD

3:20-3:40 **The Role of pks<sup>+</sup> E. coli in Early-Onset Colorectal Cancer**  
 Karuna Ganesh  
 Memorial Sloan Kettering Cancer Center, New York, NY

- 3:40- 4:00      **Cancer: A tango of miscommunication between oncogenic stem cells and their microenvironment**  
 Elaine Fuchs  
 Rockefeller University, New York, NY
- 4:00-4:10      **Early-onset colorectal cancer is characterized by transcriptional changes indicating increased epithelial-mesenchymal transition and metastatic potential\***  
 Ana Anderson  
 Brigham and Women's Hospital, Boston, MA
- 4:10-4:20      **Transcriptomic and pathway analyses patterns in early-onset and late-onset microsatellite stable colorectal cancer: Results from the ORIEN Network\***  
 Sheetal Hardikar  
 University of Utah Huntsman Cancer Institute, Salt Lake City, UT
- 4:20-5:00      Discussion / Q&A

#### Poster Session C & Reception

5:00-6:30 p.m. | Grand Salon Opera C

Evening off / Dinner on own

6:30 p.m.

#### SATURDAY, DECEMBER 13

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#### Continental Breakfast

7-8 a.m. | Grand Salon Foyer

#### Special Session: The NCI Early-Onset Cancer Initiative: Driving Discovery, Collaboration, and Patient Engagement

**Organizer:** LeeAnn Bailey, NCI,

7:15-8:15 a.m.

#### Plenary Session 7: Early Detection and Screening

8:30-10:15 a.m. | Grand Salon Opera AB

**Session Chair:** Luis Diaz, Memorial Sloan Kettering Cancer Center, New York, NY

8:30-8:35      Introduction

8:35-8:55      **Early-Onset Colorectal Cancer as a Model for Precision Cancer Prevention**  
 Andrew T. Chan



Massachusetts General Hospital, Boston, MA

8:55-9:15

**Multi-cancer Early Detection testing: Hope or hype?**

Elizabeth O'Donnell

Dana-Farber Cancer Institute, Boston, MA

9:15-9:35

**Early Onset Cancer Incidence: A Model for the Role of Diagnostic Advances\***

Ruth Etzioni

Fred Hutchinson Cancer Center, Seattle, WA

9:35-9:45

**Distinct Oral Bacterial Signatures in Rectal Cancer Tumors Associated with Age of Onset and Treatment Response\***

Nadim Ajami

UT MD Anderson Cancer Center, Houston, TX

9:45-9:55

**FIT for red flag signs and symptoms of early onset colorectal cancer: low value or viable diagnostic tool\***

Daniel Sabater Minarim

UC San Diego Health, La Jolla, CA

9:55-10:30

Discussion / Q&A

**Break**

10:30-10:45 a.m.

**Plenary Session 8: Opportunities for Interception**

**10:45 a.m.-12:15 p.m. | Grand Salon Opera AB**

**Session Chair:** Elizabeth Jaffee, Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD

10:45-10:50

Introduction

10:50-11:10

**Oncogene-Targeted Vaccines for Cancer Interception**

Elizabeth Jaffee

11:10-11:30

**TBD**

Luis Diaz

Memorial Sloan Kettering Cancer Center, New York, NY

11:30-11:50

**Identification of Inherited Cancer Syndromes: Re-Defining Early-Onset Cancers**

Zsofia K. Stadler

Memorial Sloan Kettering Cancer Center, New York, NY

11:50-12:00

**Supplement And Medication Use in Early-Onset Colorectal Cancer: An Analysis of the Ohio Colorectal Cancer Prevention Initiative\***



Holli Loomans-Kropp

The Ohio State University Wexner Medical Center, Columbus, OH

12:00-12:10

**Multidimensional assessment of toxicities and survivorship among people with early-onset colorectal cancer – Results from the ColoCare Study\***

Jane Figueiredo

Cedars-Sinai Medical Center, Los Angeles, CA

12:10-12:45

Discussion / Q&A

**Panel Discussion: Future Directions**

**1-1:50 p.m. | Grand Salon Opera AB**

**Panelists:**

- Elizabeth M. Jaffee, Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD
- Timothy R. Rebbeck, Dana-Farber Cancer Institute, Boston, MA
- Luiz Diaz, Memorial Sloan Kettering Cancer Center, New York, NY

**Closing Remarks**

1:50-2 p.m.

**Departure**

2 p.m.